SE-MANO-SY-PEX20139-1

USB 3.0 PCI-Express 2.0 Host Controller Card

SD-PEX20139 USER MANUAL

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INTRODUCTION

This PCI-Express 2.0 USB 3.0 Host Controller Card complies with the Universal Serial Bus 3.0 Specification Revision 1.0 and PCI Express Generation 2 specification. The Super Speed USB 3.0 standard, operating at 5 Gbps full-duplex mode, is up to 10 times faster than the USB 2.0 High-Speed (480 Mbps) standard. It is also backward compatible with current USB 2.0 devices running at High-Speed (480 Mbps), Full-Speed (12 Mbps), and Low-Speed (1.5 Mbps) modes. This product is an ideal choice for a desktop computer that needs larger volume and higher speed data transfer connectivity with USB devices, such as external Hard Disk Drive, Solid State Drive (SSD), optical drive, high definition video camera, etc.

PACKAGE CONTENTS

Please check whether the package contains following items. If any item is missing or damaged, please contact the retailer as soon as possible:

- PCI-Express USB 3.0 Host Controller Card (x1)
- Driver CD (x1)
- User Manual (x1)
- Low Profile Bracket (x1)

SYSTEM REQUIREMENT

- Motherboard with one available x1, x4, x8 or x16 PCI-Express 1.0 / 2.0 slot. PCI Express 2.0 slot is highly recommended for fully utilizing the Super Speed USB 3.0 (5 Gbps) bandwidth.
- Microsoft certified WHQL drivers for: Windows 7 32/64-bit, Vista 32/64-bit, Windows XP 32-/64-bit and Server 2008 R2 64-bit
- Optical drive for driver installation

FEATURES AND SPECIFICATION

General

- Based on Renesas USB 3.0 Host Controller IC
- Compliant with Intel's Extensible Host Controller Interface (xHCI) Specification Revision 1.0
- Supports Standard and Low-profile desktop computer

PCI-Express Interface

- PCI-Express 2.0 1-Lane (x1) interface
- Compliant with PCI Express Base Specification 2.0
- Supports PCI-Bus Power Management Interface Specification Revision 1.2

USB Interface

- Compliant with Universal Serial Bus 3.0 Specification Revision 1.0
- USB 3.0 Super-Speed (5 Gbps) host ports, backward compatible with USB 2.0 High-Speed (480Mbps), Full-Speed (12Mbps) and Low-Speed (1.5Mbps) interface
- Supports all USB compliant data transfer types (Control / Bulk / Interrupt / Isochronous)

- Supports all USB compliant peripherals (e.g. keyboard, mouse, monitor, joystick, etc.)
- Full support of real time dynamic insertion and removal of USB devices
- Internal HDD power connector for supplying +5V power to the USB ports

WARNING

Before installing and activating the controller card, please make sure you have a complete backup of your existing data from your hard drives. The manufacturer is not responsible for data loss due to abuse, misuse, or neglect. Should you have any installation problem, please contact your dealer for assistance.

HARDWARE INSTALLATION

1. Turn off your computer and all external devices connected to it.
2. Disconnect your computer from its power source.
3. Open the computer case. Refer to your computer's user manual for more details on how to do this.
4. Locate an available PCI-Express slot (preferably a PCI Express 2.0 slot) and remove the slot bracket. Save the bracket screw for later use.
5. Align the controller card horizontally, with respect to the PCI-Express slot, and insert it into the slot firmly and evenly.
6. Once the controller card is properly positioned into the slot, fasten it to the computer case with the bracket screw which has been previously saved.
7. To power USB devices, connect the 4-Pin power cable to the controller card from the power supply unit (PSU) of the computer.
8. Secure the computer case and plug in your previously removed devices
9. Then power your computer back on.

DRIVER INSTALLATION

Installing Windows driver:

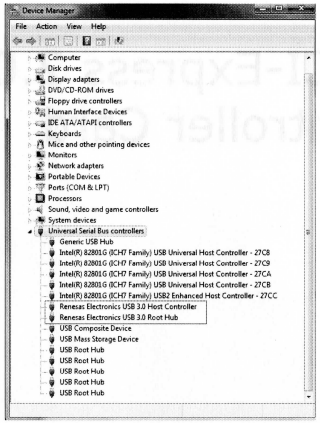
1. Insert the driver CD disc into the optical drive. Assume the optical drive's letter is **D:**.
2. Navigate to the Renesas driver folder. A path example would be D:\Renesas\uPD72020x\
3. Double click the "**setup.exe**" file
4. The Installation Wizard will guide you through the setup process. Follow the on-screen prompts until the installation is completed.

Verifying Driver Installation

To verify if the driver has been installed correctly, make sure the following items appear in the Universal Serial Bus Controllers category in the Windows Device Manager.

Refer to the image below:

Renesas Electronics USB 3.0 Host Controller
Renesas Electronics USB 3.0 Root Hub


Device Manager
File Action View Help
Computer
Disk drives
Display adapters
DVD/CD-ROM drives
Floppy drive controllers
Human Interface Devices
IDE ATA/ATAPI controllers
Keyboards
Mice and other pointing devices
Monitors
Network adapters
Portable Devices
Ports (COM & LPT)
Processors
Sound, video and game controllers
System devices
Universal Serial Bus controllers
Generic USB Hub
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C8
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C9
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CA
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CB
Intel(R) 82801G (ICH7 Family) USB2 Enhanced Host Controller - 27CC
Renesas Electronics USB 3.0 Host Controller
Renesas Electronics USB 3.0 Root Hub
USB Composite Device
USB Mass Storage Device
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub

Make sure there are no yellow exclamation marks next to any of these items. Otherwise, you have successfully installed the driver and it should be ready to use.

GETTING THE LATEST DRIVER SOFTWARE AND DOCUMENTS ONLINE

1. Visit **http://www.sybausa.com**
2. Optional driver download please visit **http://www.drivers-download.com** In **"Drivers Search"** section, enter the Download code (DL code): **DL-0460101** to search for the latest driver, software and document.

** For some models only*

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